

عنوان مقاله:

Toxicity effect of green synthesis of silver nanoparticles on male mice liver

محل انتشار:

بیستمین کنگره ملی و هشتمین کنگره بین‌المللی زیست‌شناسی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Concerns have arisen about the health and environmental effects of the growing commercial use of silver nanoparticles. However, the toxic mechanisms and target tissues of silver nanoparticles have not been well defined. In this study, silver nanoparticles were green synthesized using Eucalyptus extract, then we examined the tissue toxicity of mice after oral administration of silver nanoparticles at three concentrations of 20, 50 and 100 ppm. Colloidal nanosilver was mixed with mouse food for 30 days, respectively. The hematoxylin-eosin staining studies on liver tissue sections in the group receiving 100 ppm silver nanoparticles showed severe damage to liver hepatocytes such as swelling and inflammation and disturbing the liver function. The result of the cytotoxicity test (MTT) showed cytotoxicity at concentrations of 20 ppm and above. According to this result, it can be concluded that the application of silver nanoparticles in high concentrations need to further research for its toxicity effects on organs and blood factors

کلمات کلیدی:

Silver nanoparticle, Toxicity, Liver, Green synthesis, Mic

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